Contents of Volume 51

Number 1, March 1992

Proline transport in *Leishmania donovani* amastigotes: dependence on pH gradients and membrane potential
T.A. Glaser and A.J. Mukkada (USA) 1
The plasma membrane electrical gradient (membrane potential) in *Leishmania donovani* promastigotes and amastigotes
T.A. Glaser, G.L. Utz and A.J. Mukkada (USA) 9
Characterisation of the gene encoding a candidate vaccine antigen of *Theileria parva* sporozoites
V. Nene, K.P. Iams, E. Gobright and A.J. Musoke (Kenya) 17
The pathway of arginine catabolism in *Giardia intestinalis*
P.J. Schofield, M.R. Edwards, J. Matthews and J.R. Wilson (Australia) 29
Characterization of cDNA clones for the alpha subunit of pyruvate dehydrogenase from *Ascaris suum*
K.R. Johnson, R. Komuniecki, Y. Sun and M.J. Wheelock (USA) 37
Binding of *Plasmodium falciparum* 175-kilodalton erythrocyte binding antigen and invasion of murine erythrocytes requires *N*-acetylneuraminic acid but not its *O*-acetylated form
F.W. Klotz, P.A. Orlandi, G. Reuter, S.J. Cohen, J.D. Haynes, R. Schauer, R.J. Howard, P. Palese and L.H. Miller (USA, Germany) 49
The 7SL RNA homologue of *Trypanosoma brucei* is closely related to mammalian 7SL RNA
S. Michaeli, D. Podell, N. Agabian and E. Ullu (USA) 55
Polyamine *N*-acetyltransferase from *Fasciola hepatica*
S.O. Aisien and R.D. Walter (Germany) 65
The reversible effect of glucose on the energy metabolism of *Schistosoma mansoni* cercariae and schistosomula
A.M.C. Horemans, A.G.M. Tielens and S.G. van den Bergh (The Netherlands) 73
Sequence variation in the tripeptide repeats and T cell epitopes in P190 (MSA-1) of *Plasmodium falciparum* from field isolates
S. Jongwutiwes, K. Tanabe, S. Nakazawa, T. Yanagi and H. Kanbara (Japan) 81
Polyamine oxidase from *Acanthamoeba culbertsoni* specific for N^8-acetylspermidine
O.P. Shukla, S. Müller and R.D. Walter (Germany) 91
Purification of novel calcium binding proteins from *Trypanosoma brucei*: properties of 22-, 24- and 38-kilodalton proteins
N.G. Haghighat and L. Ruben (USA) 99
Differential expression of two mRNAs from a single gene encoding an HMG1-like DNA binding protein of African trypanosomes
N.E. Erondu and J.E. Donelson (USA) 111
Variable and conserved structural elements of trypanosome variant surface glycoproteins
D.M. Reinitz, B.D. Aizenstein and J.M. Mansfield (USA) 119
Sequence analysis of small subunit ribosomal RNA genes and its use for detection and identification of *Leishmania* parasites
G.J.J.M. van Eys, G.J. Schoone, N.C.M. Kroon and S.B. Ebeling (The Netherlands) 133
Isolation and characterization of a cysteine proteinase gene of *Plasmodium falciparum*
P.J. Rosenthal and R.G. Nelson (USA) 143
Specific functional domains of mitochondrial hsp70s suggested by sequence comparison of the trypanosome and yeast proteins (*Short Communication*)
D.M. Engman, S.C. Fehr and J.E. Donelson (USA) 153
Localization of the 175-kilodalton erythrocyte binding antigen in micronemes of *Plasmodium falciparum* merozoites (*Short Communication*)
B.K.L. Sim, T. Toyoshima, J.D. Haynes and M. Aikawa (USA) 157
Rapid and practical DNA-isolation from *Trichomonas vaginalis* and other nuclease-rich protozoa (*Short Communication*)
D.E. Riley and J.N. Krieger (USA) 161
Characterization of a repetitive DNA element from *Entamoeba histolytica* (*Short Communication*)
B. Michel, A. Alagón, P.M. Lizardi and M. Zurita (Mexico) 165
A cDNA encoding an α-tubulin from *Schistosoma mansoni* (*Short Communication*)
P.J. Webster, K.A. Seta, S.C. Chung and T.E. Mansour (USA) 169

Number 2, April 1992

Identification of basic fibroblast growth factor-like proteins in African trypanosomes and *Leishmania*
E. Kardami, T.W. Pearson, R.P. Beecroft and R.R. Fandrich (Canada) 171
An examination of the mitomycin C induction of chromosome polymorphisms in cultures of *Plasmodium falciparum*
J. Inselburg and S. Lee (USA) 183
Trisomy and chromosome size changes in hybrid trypanosomes from a genetic cross between *Trypanosoma brucei rhodesiense* and *T.b. brucei*
W. Gibson, L. Garside and M. Bailey (UK) 189
Developmental regulation of protein synthesis in schistosomes
R.E. Blanton and L.S. Licate (USA) 201
Cloning and sequence comparisons of four distinct cysteine proteases expressed by *Haemonchus contortus* adult worms
D. Pratt, L.G. Armes, R. Hageman, V. Reynolds, R.J. Boisvenue and G.N. Cox (USA) 209
Characterization of a *Giardia lamblia* variant-specific surface protein (VSP) gene from isolate GS/M and estimation of the VSP gene repertoire size
T.E. Nash and M.R. Mowatt (USA) 219

A stage-specific calcium-binding protein expressed in eggs of *Schistosoma mansoni*
D. Moser, M.J. Doenhoff and M.-Q. Klinkert (Germany, UK) 229
Gut-specific and developmental expression of a *Caenorhabditis elegans* cysteine protease gene
C. Ray and J.H. McKerrow (USA) 239
Developmental gene expression of a 230-kilodalton macrogamete-specific protein of the avian coccidial parasite *Eimeria maxima*
M. Fried, D. Mencher, O. Sar-Shalom and M. Wallach (Israel) 251
Structural characterization of neutral glycosphingolipids from *Trypanosoma cruzi*
E. Barreto-Bergter, A.B. Vermelho, R. Hartmann, G. Pohlentz, R.A. Klein and H. Egge (Brazil, Germany) 263
Characterization of a highly repeated interspersed DNA sequence of *Trypanosoma cruzi*: its potential use in diagnosis and strain classification
J.M. Requena, A. Jimenez-Ruiz, M. Soto, M.C. Lopez and C. Alonso (Spain) 271
The identification and characterization of a break within the large subunit ribosomal RNA of *Trichinella spiralis*: comparison of gap sequences within the genus
D.S. Zarlenga and J.B. Dame (USA) 281
Construction of a molecular karyotype for *Toxoplasma gondii*
L.D. Sibley and J.C. Boothroyd (USA) 291
Mapping of the region predominantly recognized by antibodies to the *Plasmodium falciparum* merozoite surface antigen MSA 1
J.A. Cooper, L.T. Cooper and A.J. Saul (Australia) 301
An RFLP map of the *Plasmodium falciparum* genome, recombination rates and favored linkage groups in a genetic cross
A. Walker-Jonah, S.A. Dolan, R.W. Gwadz, L.J. Panton and T.E. Wellems (USA) 313
Thymidine kinase as a negative selectable marker in *Leishmania major (Short Communication)*
J.H. LeBowitz, A. Cruz and S.M. Beverley (USA) 321
The sequence of the p82 rhoptry protein is highly conserved among *Plasmodium falciparum* isolates (*Short Communication*)
R.F. Howard 327
Purification of glutathione reductase from muscle of the adult parasitic nematode, *Ascaris suum (Short Communication)*
R. Komuniecki, I. Bruchhaus, T. Ilg, K. Wilson, Y. Zhang and A.H. Fairlamb (USA, Germany, UK) 331
Author Index 335
Subject Index 337
Contents of Volume 51 339